

**Claims:**

1. An acetylene distribution system, comprising:  
a first and a second transportable source of compressed acetylene; and  
an acetylene filling assembly for filling acetylene into each transportable source, whereby the acetylene filling assembly fills a first tank to a first level and thereafter fills a second tank while continuing to fill the first tank and the acetylene filling assembly restricting the flow of acetylene to the second tank while continuing to fill the first tank.
2. The acetylene distribution system of claim 1, whereby the first transportable source comprises a first trailer assembly and the second transportable source comprises a second trailer assembly, whereby each the first and the second trailer assembly includes a plurality of cylinders.
3. The acetylene distribution system of claim 2, whereby the plurality of cylinders are interconnected by a manifold system.
4. The acetylene distribution system of claim 3, whereby the acetylene filling system includes more than one fill bay, whereby a scale and a computer system are located in the respective fill bay to monitor the acetylene entering the fill bay.
5. The acetylene distribution system of claim 4, whereby the first and the second trailer assembly is placed in the respective fill bay to be filled with acetylene.
6. The acetylene distribution system of claim 5, further including a transportable gas regulating apparatus for unloading the acetylene from the transportable source to a point of use.
7. The acetylene distribution system of claim 6, whereby the apparatus for unloading the acetylene from the transportable source is mounted on a skid.

PATENT

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8. A transportable acetylene distribution apparatus, comprising:
  - a piping system to act as a fluid conduit for the distribution of acetylene;
  - at least one valve connected to the piping system, whereby the at least one valve controls the flow of acetylene;
  - at least one pressure regulating member connected to the piping system;
  - at least one connector attached to the piping system; and
  - a platform, whereby the piping system is disposed on the platform.
9. The acetylene distribution apparatus of claim 8, whereby the platform is connected to a skid, thereby allowing the acetylene distribution apparatus to be moved as one unit.
10. The acetylene distribution apparatus of claim 8, whereby the platform is connected to a trailer, thereby allowing the acetylene distribution apparatus to be moved as one unit.